

# Multidisciplinary Scientific and Engineering Approaches to Assessing Diesel Exhaust Toxicity

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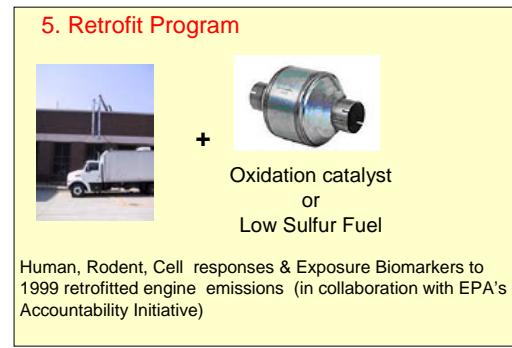
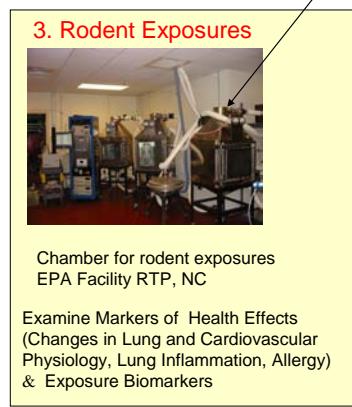
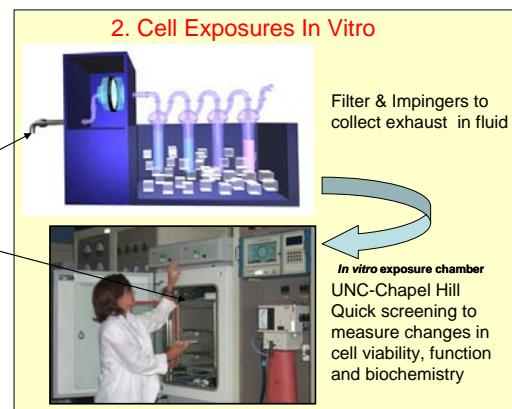
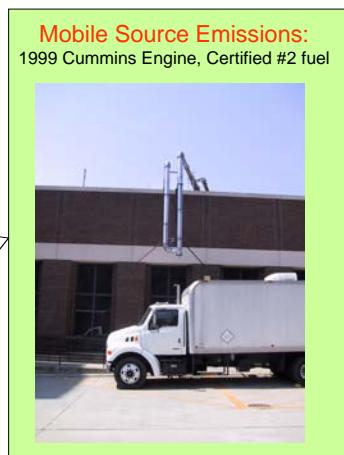
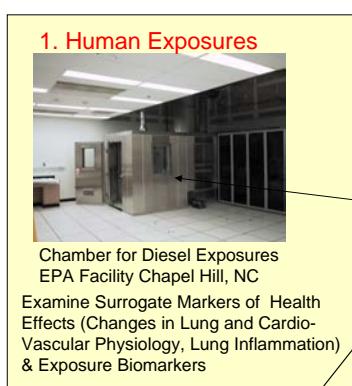
## Health Concerns about Diesel Emissions

- Ambient airborne Particulate Matter (PM) concentrations are associated with health effects (e.g., premature mortality, increased hospitalizations)
- Diesel exhaust contains particles that may contribute to PM related health effects and gases that may modify these health effects
- Diesel emissions are major sources of PM in certain locations
- Chronic exposure to diesel exhaust may increase lung cancer risk
- Diesel regulations projected to lower diesel PM and nitrogen oxides (NOx), but health effects benefit not yet documented

## Goals:

- Assess the role of diesel exhaust particles (DEP) in PM related health effects (e.g., premature mortality, increased hospitalizations)
- Assess health effects related to changes in diesel emissions derived from new and future technologies

## Approaches to Meet Goals:



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